



## **ENGINEERING DIVISION**

### **Capital Improvements Section**

#### **Monthly Capital Projects Report** **May 2021**

Honorable Mayor & City Council,

For May's Report we are only including projects that have reported substantial progress. The map attached to this document is a comprehensive view of all of our active projects in the community, either in design/planning or currently under construction.

We are working to provide an Executive Summary that highlights key project updates for the month and do not have that available this month.

## **Surface Transportation Reauthorization Legislation** (COMMUNITY PROJECT FUNDING REQUEST)

FUND: SURFACE TRANSPORTATION REAUTHORIZATION LEGISLATION

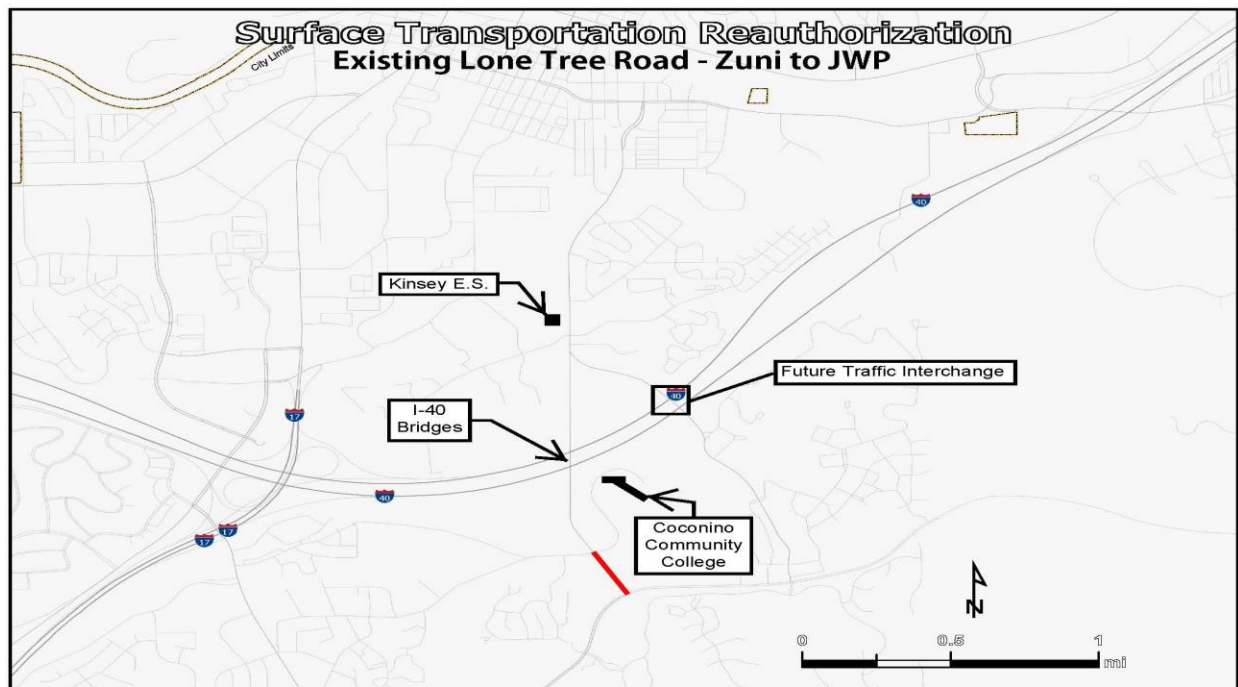
**Description** – The U.S. House Committee on Transportation and Infrastructure announced March 3, 2021, that the Committee will accept requests for Member Designated Projects to be considered for inclusion in the upcoming surface transportation reauthorization legislation under a reformed process that includes new transparency measures. We are excited to announce that United States Congressman Tom O’Halloran has selected and submitted his requests that include a City of Flagstaff project located at the southern end of existing Lone Tree Road. More information can be found at <https://ohalleran.house.gov/help/community-funding-requests>

### **Update:**

- **Project Sponsor:** City of Flagstaff
- **Project Name:** Lone Tree Corridor
- **Location:** Lone Tree Road, Flagstaff, Arizona 86001
- **Requested Amount:** \$8 million

Deputy City Manager Dille outlined our projected path forward as we anxiously await the results of this request. He wrote, *“Remember that this is for both appropriation and authorization of funds, all in one step this round. Nevertheless, we have a long way to go. First, it has to be included in the base House bill. Then, it has to pass the House. The Senate may (or may not) earmark the infrastructure bill. And then it needs to survive the conference committee and be signed into law by the President. A bill won’t hit the president’s desk until late this summer at the earliest. All stars aligned here the money wouldn’t hit our coffers until at least October 2021.”*

- The City’s Federal Lobbyist and staff will continue to track this request and will share progress updates with City Council when more information is known.

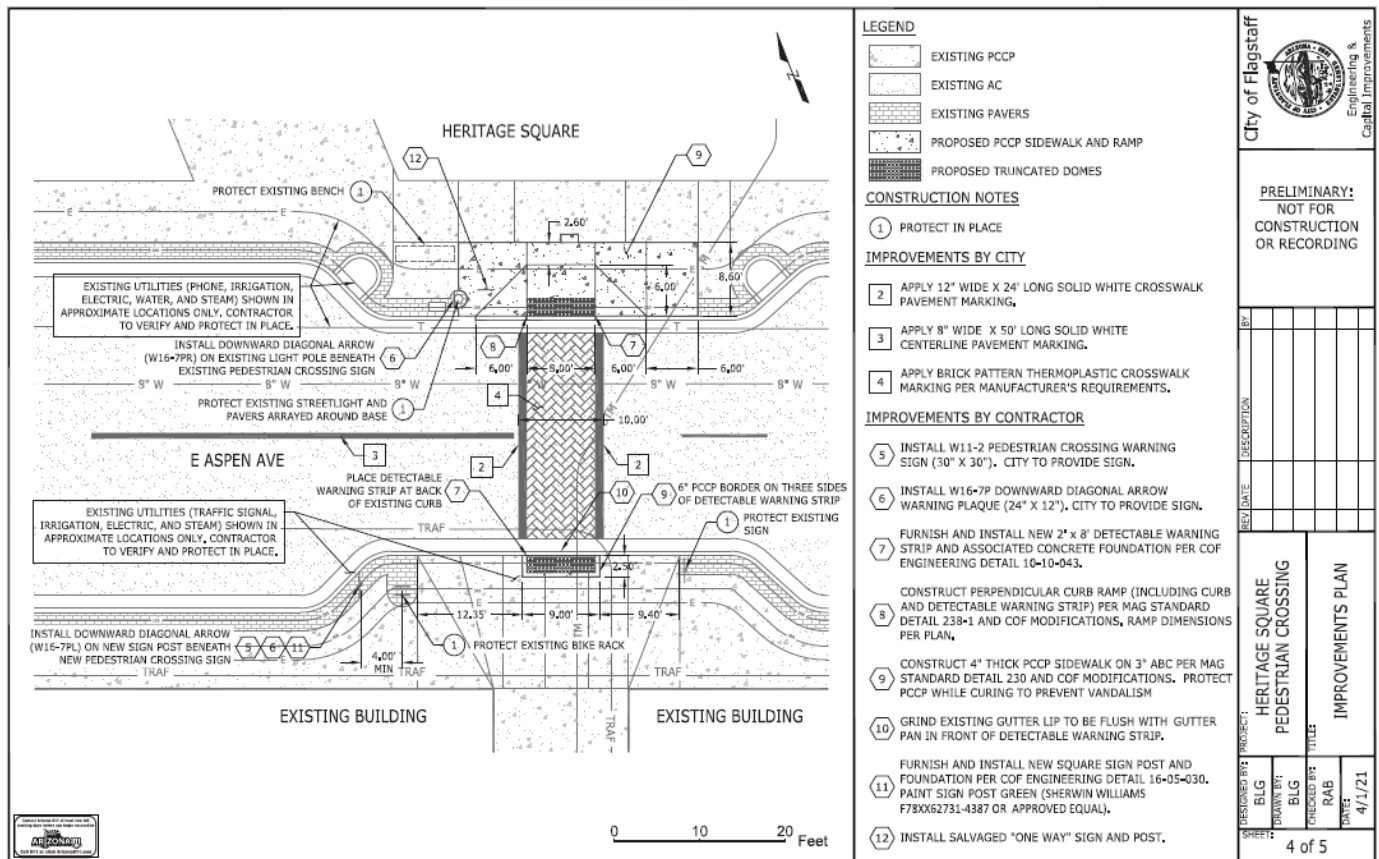


FUND: HIGHWAY USER REVENUE FUND

**Description** – In-house design and construction of a mid-block pedestrian crossing of Aspen Avenue that will provide an ADA compliant ramp into Heritage Square.

### Project Update:

- On April 9<sup>th</sup> we completed in-house design and requested bids from our four (4) Job Order Contractors.
- On April 23<sup>rd</sup> we received two (2) proposals.
- Press release was issued, and work coordinated with the DBA.
- Construction commenced on May 3<sup>rd</sup> and was completed on May 13<sup>th</sup>.
- Streets Crews will perform some minor asphalt repairs and install decorative crosswalk markings during the week of May 17<sup>th</sup>.



### *Design Features for Aspen Avenue mid-block Pedestrian Crossing*

## La Plaza Vieja Traffic Calming (DESIGN PHASE)

FUND: TRANSPORTATION TAX (SAFETY) & HOUSING [CDBG] ALLOCATION

**Description** – The project is assisting the neighborhood by improving pedestrian safety of crosswalks, sidewalks, bike lanes and storm drainage at the Kingman Street and Florence Street/Malpais Lane intersections along Clay Avenue.

### Project Update:

- Capital Improvements is assisting Comprehensive Planning.
- The final design has been approved and the next step is to solicit bids for construction.
- The City's on-call procurement process will be used to deliver the project's construction.
- Construction has been planned for the summer, 2021 with final completion by late fall 2021.



Conceptual Plan of Proposed Improvements

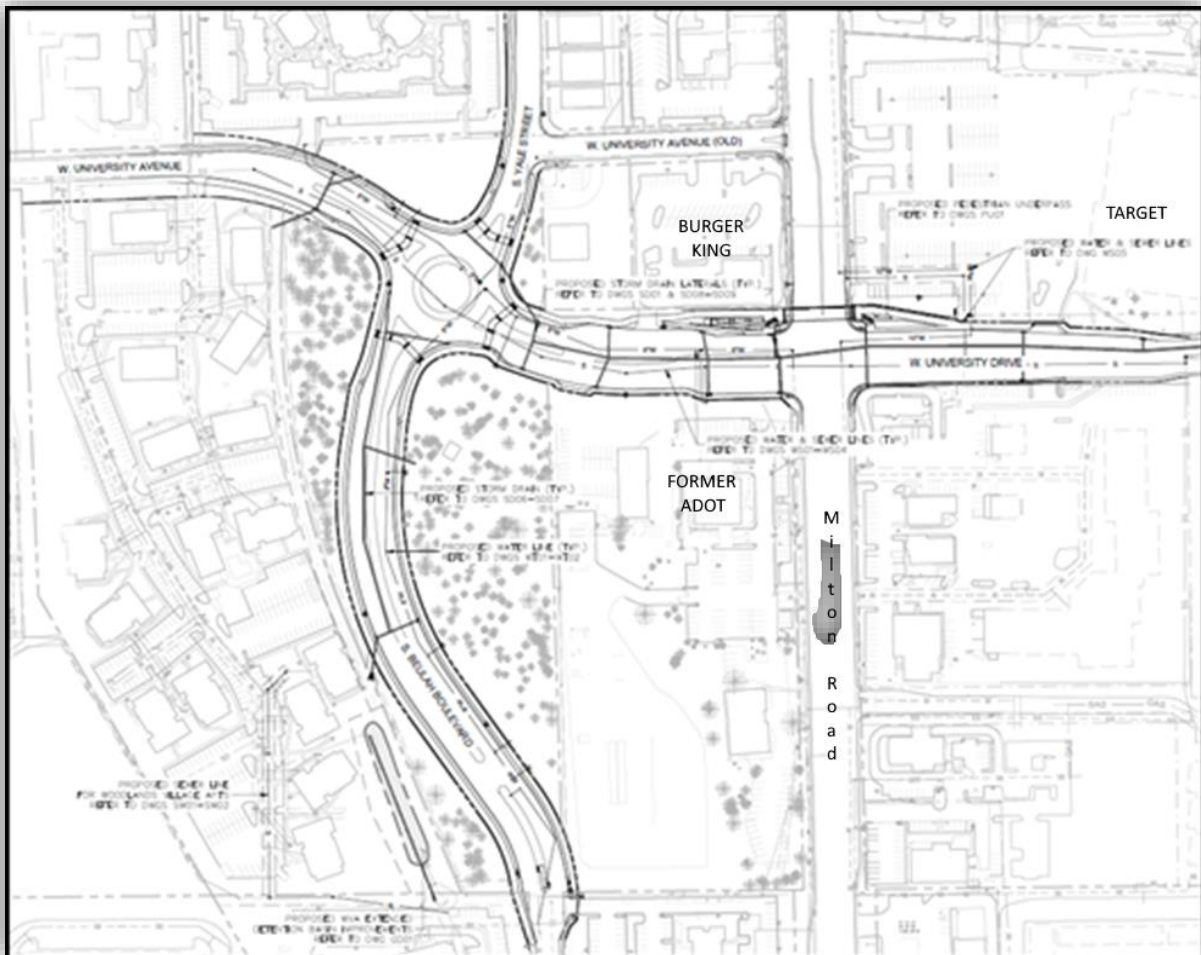
## **Beulah Boulevard Extension/University Drive Realignment** (DESIGN PHASE)

FUND: TRANSPORTATION TAX (STREETS)

**Description** – This project extends the northern terminus of Beulah Boulevard to connect with University Drive. Furthermore, University Avenue (west of Milton) will be realigned to match up with University Drive (east of Milton). A new roundabout will be constructed where Beulah Boulevard and University Drive will intersect.

### **Project Update:**

- Shephard Wesnitzer, Inc. (SWI), the engineering firm completing design, is responding and incorporating the comments from project stakeholders during the 30% design effort into current 60% design plans.
- Speedie and Associates (Speedie), a geotechnical subconsultant, is working with NAU to obtain the permitting to finish the geotechnical borings to investigate subsurface soil and rock conditions in strategic locations of proposed new infrastructure. ADOT has approved encroachment permit and Speedie is coordinating with Mountain Line to minimize bus impacts during night boring on Milton.
- Preliminary partial property acquisition efforts are being further defined for parcels adjacent to this roadway improvement. These locations include Target, Sterling Point & University Square Apartments.
- Coordination efforts continue with Northern Arizona University (NAU owns University Drive east of Milton).



*Extent map of new Beulah and University Realignment – taken from 30% plans.*



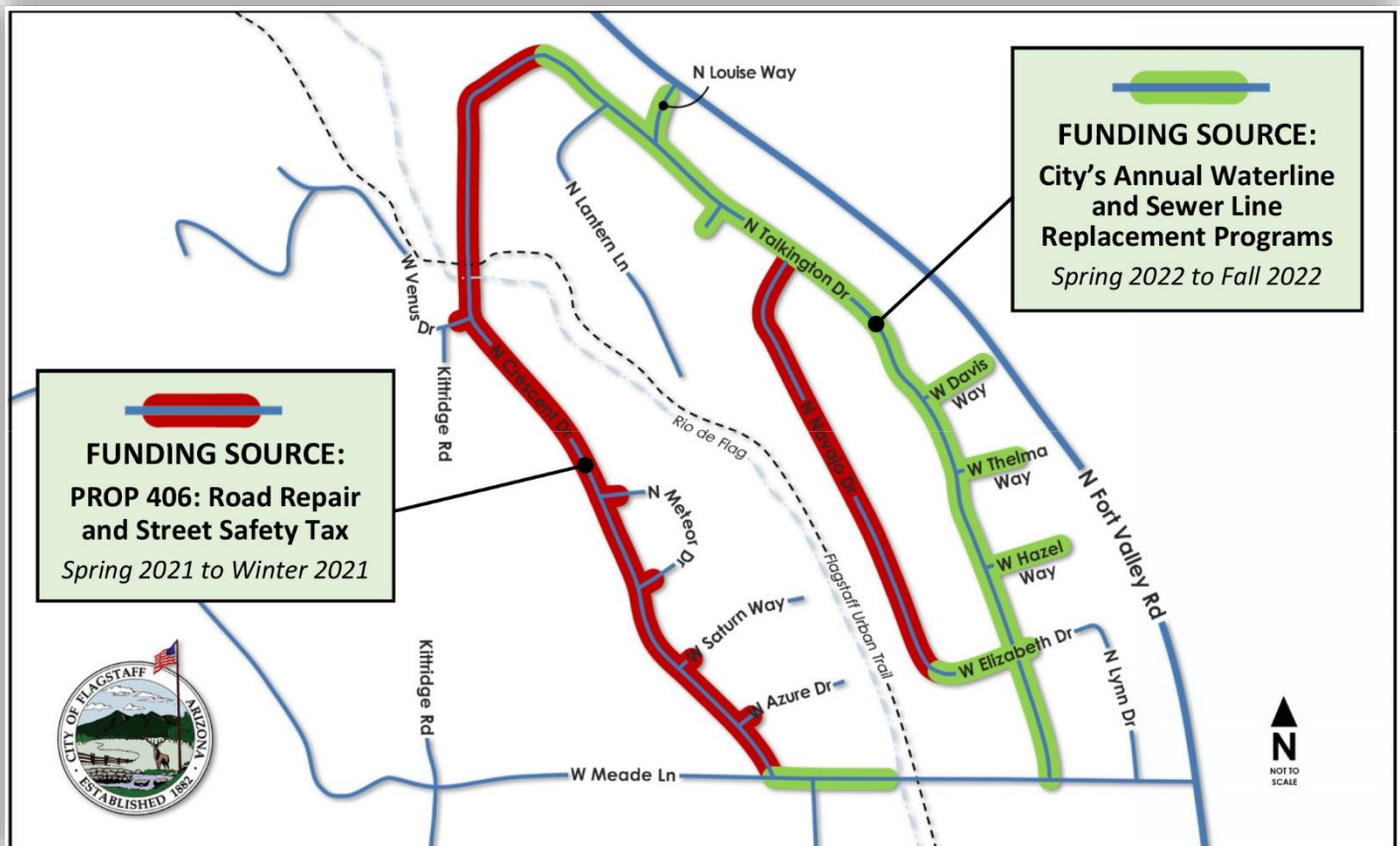
## **Coconino Estates Improvements Phase II** (CONSTRUCTION PHASE)

FUND: ROAD REPAIR & STREET SAFETY & AGING WATER AND SEWER INFRASTRUCTURE REPLACEMENT PROGRAMS

**Description** - This is a utility and roadway improvements project located on several streets in the Coconino Estates neighborhood as seen in the map below. Improvements on the streets generally consist of replacing all existing utility and roadway infrastructure. The utility improvements include replacing the existing water and sewer mains, water and sewer services, fire hydrants, and manholes. The roadway improvements include replacing the existing asphalt roadway, replacing rolled curb with vertical curb, constructing driveway ramps at driveway entrances, and replacing select sidewalk only where it currently exists on Crescent Drive. Sidewalk will NOT be installed where it does not currently exist. For additional information visit the Project website at [www.coconinoestates.com](http://www.coconinoestates.com)

### **Project Update:**

- Bids came in at over \$800,000 over the Engineer's Estimate and the multiple funding sources were able to cover the increase in anticipated costs.
- Standard Construction Company is the lowest bidding Firm on the Project and will be recommended the award of the Construction Contract be approved by Council.
- May 18 is the targeted Council Meeting for the construction contract consideration of award.
- Construction is anticipated to begin in June.
- The City will not permit the use of the same construction yard that is being used for the Coconino Estates Phase I Project at the Thorpe Park Annex site.



*Coconino Estates Improvements Phase II Project Limits – Funding - Schedule Map*

## **West Flag Improvements - David & Hutcheson** (CONSTRUCTION PHASE)

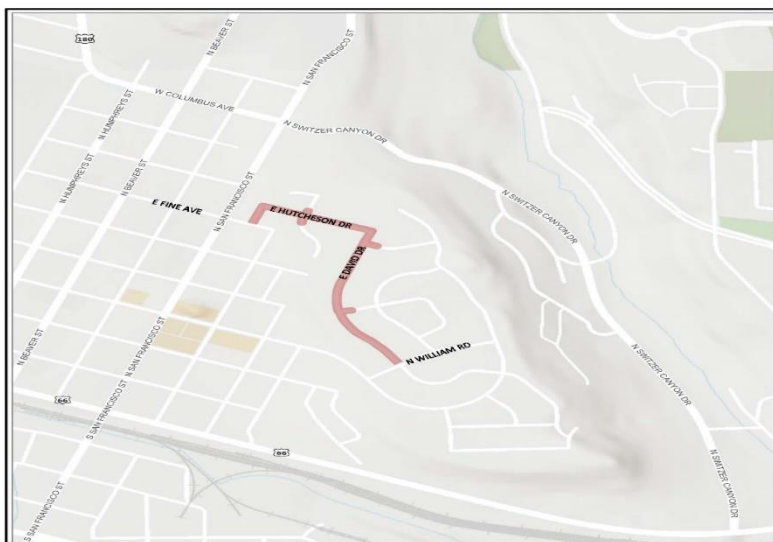
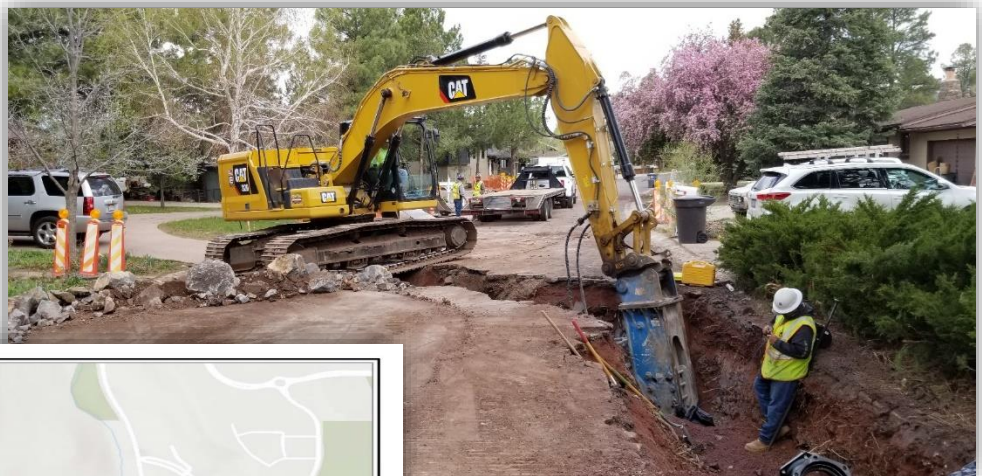
FUND: ROAD REPAIR & STREET SAFETY

**Description** - This is a utility and roadway improvements project located on David Drive and Hutcheson Drive as seen in the map below. The Project originally included Canyon Terrace and was bid as one project in the spring of 2020 but was pulled at the end of the bidding process given the economic and funding source uncertainties due to the COVID 19 Pandemic. It was decided to split the Project into two separate projects consisting of 1. David/Hutcheson and 2. Canyon Terrace. Improvements on the streets generally consist of replacing all existing utility and roadway infrastructure. The utility improvements include replacing the existing water and sewer mains (except for on David Drive), water and sewer services, fire hydrants, and manholes. The roadway improvements include replacing the existing asphalt roadway, replacing rolled curb with vertical curb on David Drive, and replacing select edge improvements (sidewalk, curb and gutter, etc.). For additional information visit the Project website at [www.Flagstaff.az.gov/westflagimprovements](http://www.Flagstaff.az.gov/westflagimprovements).

### **Project Update:**

- Water main, water and sewer service installations continue on David working north from William.
- David Drive and Hutcheson Drive will be closed to thru traffic from William Road to Fine Avenue, with detours posted around the closure.

*David Dr. North of William Rd.,  
looking north at the water main  
construction.*



**David & Hutcheson Vicinity Map**

*West Flag Improvements - David  
& Hutcheson Project Vicinity  
Map*

## **West Flag Improvements - Canyon Terrace** (CONSTRUCTION PHASE)

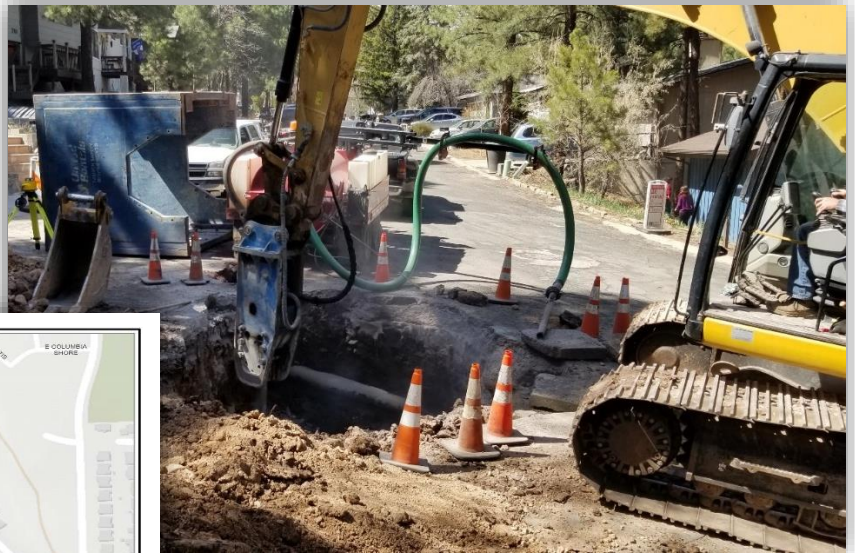
FUND: ROAD REPAIR & STREET SAFETY

**Description** - This is a utility and roadway improvements project located Canyon Terrace Drive as seen in the map below. The Project originally included David Drive and Hutcheson Drive and was bid as one project in the spring of 2020 but was pulled at the end of the bidding process given the economic and funding source uncertainties due to the COVID 19 Pandemic. It was decided to split the Project into two separate projects consisting of 1. David/Hutcheson and 2. Canyon Terrace. Improvements on the streets generally consist of replacing all existing utility and roadway infrastructure. The utility improvements include replacing the existing water and sewer mains, water and sewer services, fire hydrants, and manholes. The roadway improvements include replacing the existing asphalt roadway and select curb and gutter. For additional information visit the Project website at [www.Flagstaff.az.gov/westflagimprovements](http://www.Flagstaff.az.gov/westflagimprovements).

### **Project Update:**

- Sewer main and service installations continue on Canyon Terrace working south from the south entrance "Y" to the dead end and will then proceed to the north.
- Work zones and flagging operations will vary during the sewer main installation work.

*Canyon Terrace Dr. At the south entrance "Y", looking north at the sewer main construction.*



*West Flag Improvements -  
Canyon Terrace Project Vicinity  
Map*



## **Coconino Estates Improvements Phase I** (CONSTRUCTION PHASE)

FUND: ROAD REPAIR & STREET SAFETY

**Description** - This is a utility and roadway improvements project located in the Coconino Estates neighborhood on Beal Road from Rockridge to Fort Valley, Navajo Drive from Navajo Road to Murray, Whipple Road from Navajo Drive to McMillan, and Navajo Road from Navajo Drive to Fort Valley. Improvements on the streets generally consist of replacing existing infrastructure with new, including water and sewer mains, water and sewer services, fire hydrants, storm drains, streetlights, the entire asphalt roadway, and defective select edge improvements (curb & gutter, sidewalk, etc.), except for Whipple Road which will only receive a new water main. There will also be new infrastructure added consisting of underground electric lines for streetlighting and sidewalk on both sides of the street where it does not currently exist on Beal Road, Navajo Drive south of Beal, and on Navajo Road. For additional information visit the Project website at [www.coconinoestates.com](http://www.coconinoestates.com).

### **Project Update:**

A new way of communicating project information has just been started with the recent installation of a new project sign and banner prototype that include a QR code for the public to scan and view more information on the Project website.

#### **Navajo Road (Construction Zone #1)**

- Majority of improvements are complete.
- Final signage, striping, and landscape restorations remain.
- Navajo Road is open to all traffic; however, temporary shoulder closures will occur as the remaining items of work occur.

#### **Navajo Drive (Construction Zone #2)**

- Water and sewer main and service, storm drain, electrical conduit, streetlight, curb and gutter installations are complete.
- Paving took place on May 6.
- A few concrete driveways, sections of sidewalk, Final signage, striping, and landscape restorations remain.
- Navajo Drive from Hopi Drive to Whipple Road is closed to thru traffic, with detours posted around the closure.

#### **Beal Road (Construction Zone #3)**

- Water and sewer main and service installations in and west of the Beal/Navajo intersection to the Rio de Flag bridge are complete.
- Storm drain installations in and west of the Beal/Navajo intersection to the Rio de Flag bridge continue.
- Water and sewer main and service installations east of the Beal/Navajo intersection toward 180 continue.
- Beal Road is closed to thru traffic from Aztec to 180, with detours posted around the closure.

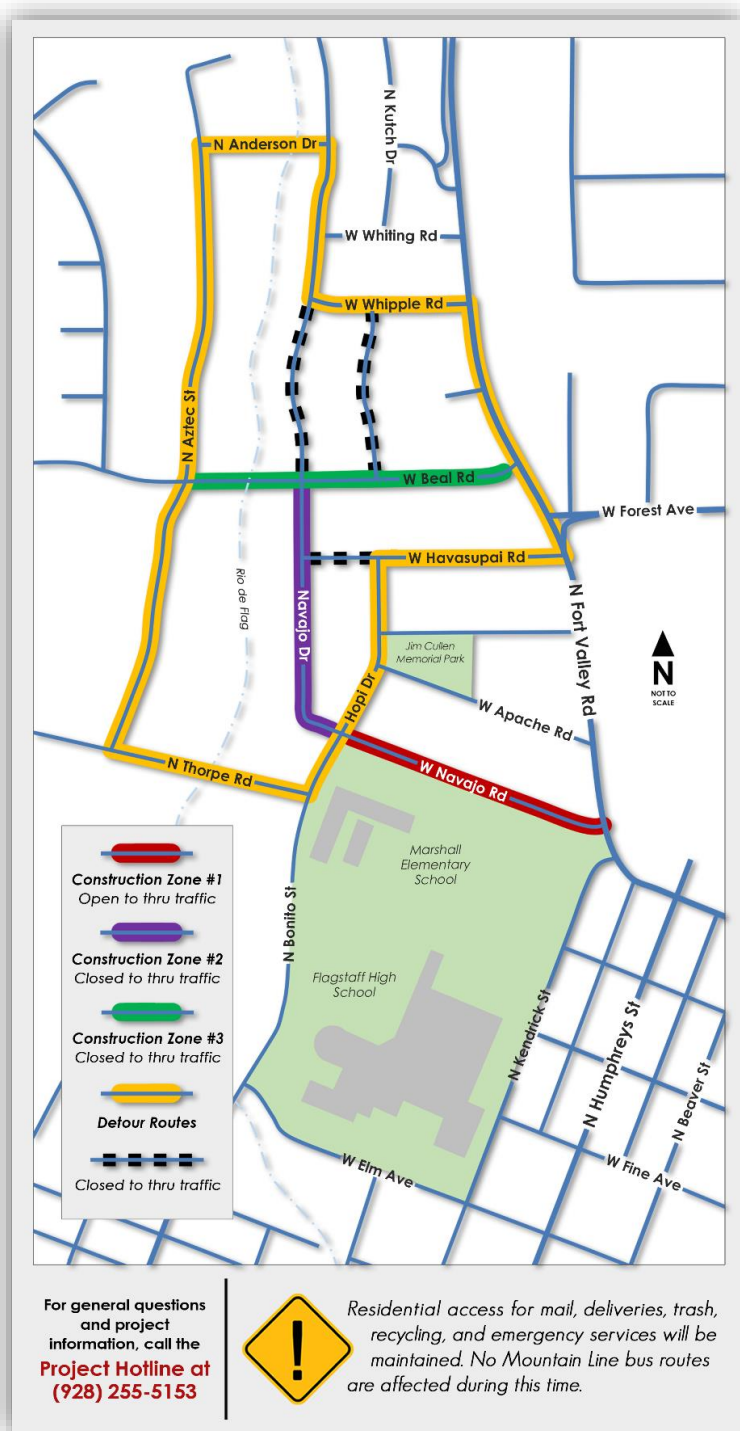


*Navajo Dr. / Navajo Road Intersection, looking north at the paving operations on Navajo Dr..*



*Beal Rd. At McMillian Rd., looking east at the sewer construction.*





*Current road closures and detours.*

## **Fourth Street Reconstruction** (CONSTRUCTION PHASE)

FUND: TRANSPORTATION TAX (RENEWED TAX)

**Description** – The project is on Fourth Street from the Soliere Avenue intersection, southerly to just past the Sparrow Avenue intersection. The work will construct a new pavement section with two northbound and two southbound lanes and a center turn lane, northbound dedicated right-turn lanes from Fourth Street onto Sparrow Ave. and onto Soliere Avenue, new streetlights, new traffic signals at Soliere Avenue, new 12" water main and new 8" water main, curb and gutter and new sidewalk. The reconstruction work will connect with the recently completed bridge replacement project.

### **Project Update:**

- Existing asphalt pavement removed, processed, and re-used as roadway base material for new pavement.
- Significant bedrock encountered in trenching work, slowing progress.
- Base lift of asphalt on westside installed.
- Traffic has been shifted to the westside of Fourth St. and work has begun on the eastside.
- The base lift of asphalt pavement was installed at the Soliere Ave. intersection.
- Soliere Ave. is now open and Sparrow Ave. is closed to install waterline and signal infrastructure across the intersection. Detours are posted.



*Fourth Street Reconstruction –Soliere Ave. base lift paved and reopened*



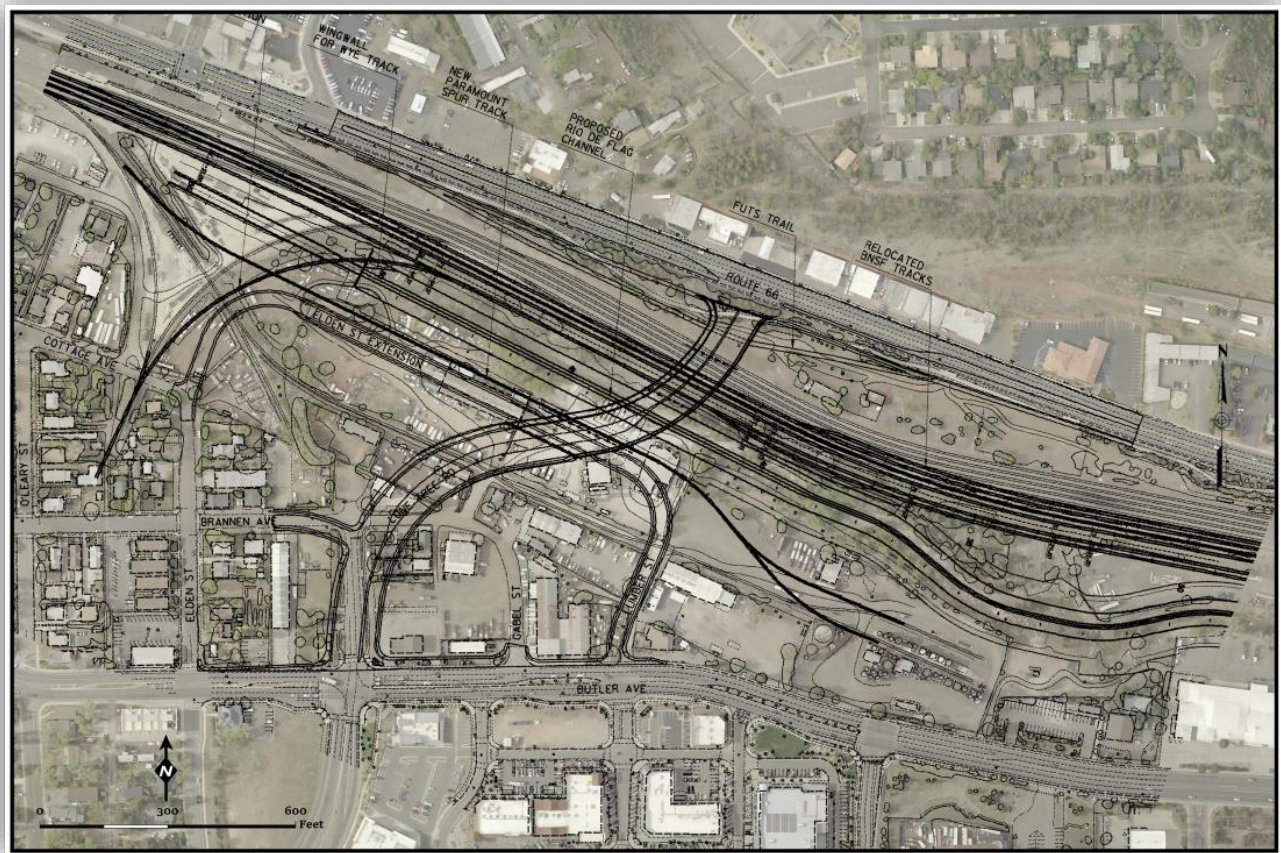
## **Lone Tree Overpass Project** (Design Phase)

FUND: TRANSPORTATION

**Description** - The Lone Tree Overpass Project will provide a grade-separated crossing over the future Rio de Flag drainage and the BNSF Railway corridor from Butler Avenue to Route 66. Funding for this project is provided through voter approved bonds as designated in the 2018 Proposition 420.

### **Project Update:**

- BSNF and the City are developing the Preliminary Engineering Agreement, which is required to fund BNSF plan review of the project design documents. This contract will be presented to Council contingent on the cost.
- Work proceeds on traffic count and modeling data development, ADOT Traffic Impact Analysis, BNSF rail relocation preferred alternative development, environmental Phase I investigations, and property acquisition.



*Lone Tree Overpass Concept Design*



## **Library Entrance** (DESIGN PHASE)

FUND: BBB - BEAUTIFICATION

**Description** – Project to bring Library Entrance into ADA compliance with new handicap ramp and new overall vision for the entrance. Public art will be incorporated into project and an artist is being brought onto the design team. Project includes upgrades to landscaping, handicap-accessible parking, parking lot, and hardscape.

### **Project Update:**

- WLB Group is working on conceptual plans for entrance.
- The Project Team presented updated concepts to the *Commission on Inclusion and Adaptive Living* on April 27th.
- The ramp concepts were shared with the Library Board at their April 1<sup>st</sup> meeting.
- A project update and conceptual ramp design was presented to the *Beautification and Public Art Commission* (BPAC) on April 12th. The concepts were approved and recommendations made for final City Council input, which occurred on May 11.
- Council provided direction to go with “Concept 2”(see below) with further direction to staff to revisit the placement of the proposed public art component.



*Library Entrance Project-Existing Conditions*

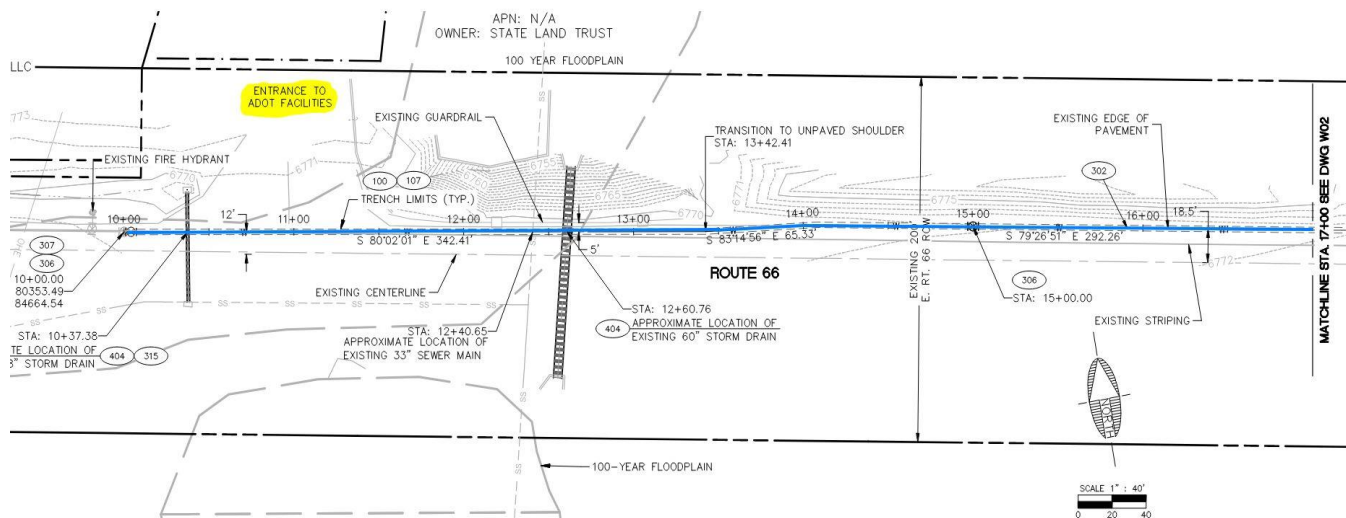
## East Route 66 and El Paso Flagstaff Waterline Extension (DESIGN PHASE)

FUND: AGING INFRASTRUCTURE

**Description** – A utility improvements project that extends the 12" ductile iron waterline approximately 2,450 linear feet from approximately the intersection of Test Dr. and Rt. 66 to the intersection of El Paso Flagstaff Rd. The waterline extension continues north, up El Paso Flagstaff Road towards the Wildcat Hill Wastewater Treatment plant, with approximately 1,600 linear feet of new 8" ductile iron waterline. The project also calls for a repaving of El Paso Flagstaff Road for the extents of the waterline extension.

### **Project Update:**

- Plans and bid schedule are being revised to accommodate IT's request to add fiber conduit to the project.
- A bid package is being finalized, once complete, it will be submitted to Purchasing. The project will be advertised for bids in mid-May 2021.
- Plans are being coordinated with the proposed Industrial Park to the east, a private development project, to allow them water access and to mitigate future pavement cuts into the new road.
- Construction will start Summer of 2021.
- Staff continues to pursue property right approval from the State Land Trust for future underground utility rights.



*Current civil plan set in review, blue line represents the starting point of the waterline extension that begins just west of the ADOT facilities driveway and Rt 66 intersection.*

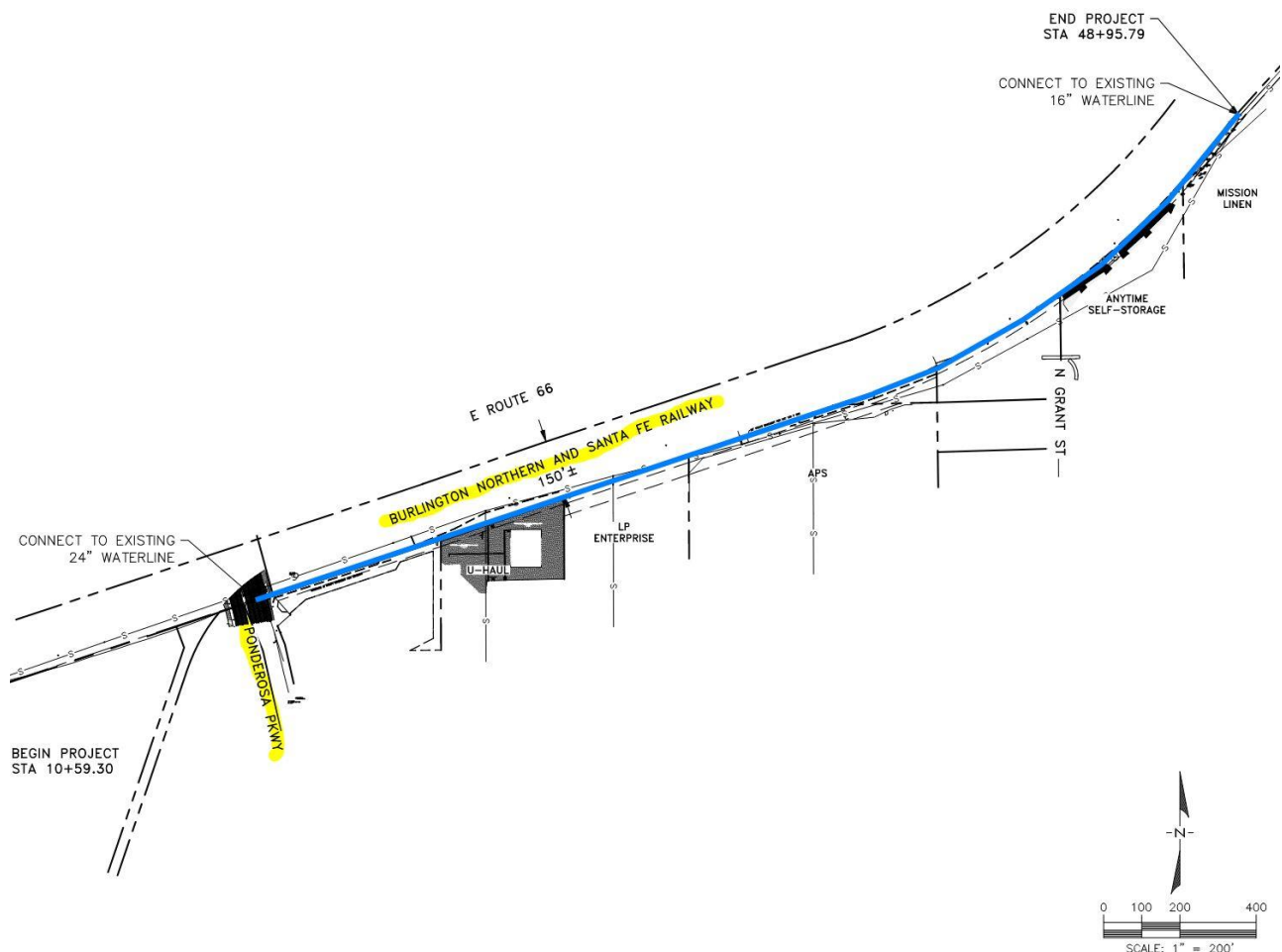
## **Huntington Waterline Replacement** (CONSTRUCTION PHASE)

FUND: AGING INFRASTRUCTURE

**Description** - The Project consists of installing 3,000 LF of new 16" ductile iron waterline, and associated roadway improvements. Included in the project will be new water services, fire hydrants and air release valves. The existing waterline in this area is over 60 years old. This project is part of the City's ongoing aging water infrastructure replacement program.

### **Project Update:**

- The awarded contractor, Sellers and Sons, Inc. is working on contract documents. The Notice to Proceed is anticipated for mid-May 2021.
- Capital Staff is in the process of public outreach to help coordinate removal of materials that have been stored in the easement by businesses that border the project's boundaries.
- Completion of the project is anticipated for late fall of 2021.



*Vicinity Map of improvements, blue line represents the new 16" waterline*



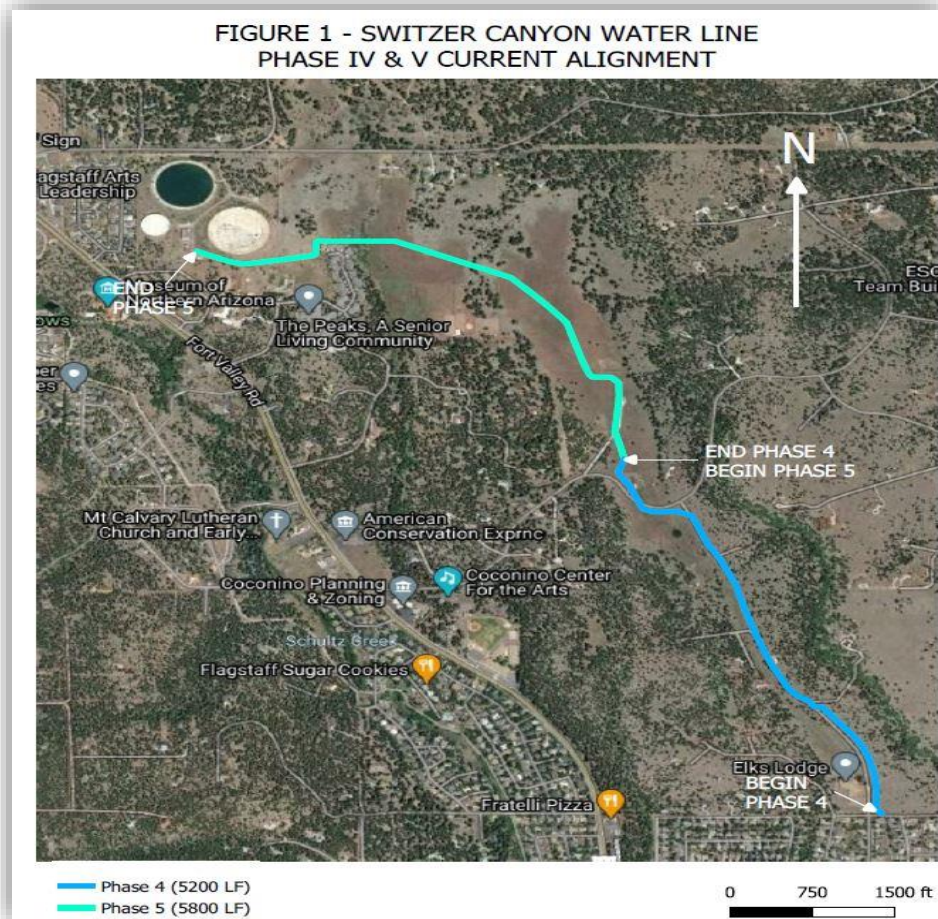
## **Switzer Canyon Transmission Main Phase IV & V (Design Phase)**

FUND: AGING INFRASTRUCTURE

**Description** – The Project consist of installing two new transmission mains, 24" and 16", that will complete the distribution system, zone A and B, from the Downtown area to the City Reservoirs near Cheshire. The length of Phase IV and V is approximately 11,000 feet. The project is within City limits and the urban distribution service area within the County. Included in the project will be the two water mains with appurtenances, new bundled water meter/service locations and fire hydrants.

### **Project Update:**

- Property acquisition is underway with legal descriptions, environmental clearances and site assessments.
- Phase V is in the planning phase to define the final alignment.
- Construction of Phase IV is anticipated for spring of 2022
- Construction of Phase V is anticipated for 2023
- Comments on the 90% level plans were transmitted to Turner Engineering for their action. Final construction plans are expected summer 2021.
- Staff continues to research and coordinate the out of City water services and how it will be applied to the Switzer Canyon Transmission Main Project Phase IV and V.



## **Summit Waterline Replacement** (CONSTRUCTION PHASE)

FUND: AGING INFRASTRUCTURE

**Description** - Approximately 3,300 ft of new waterline, water services, fire hydrants, and pavement reconstruction. The City intends to replace the water infrastructure and pavement on: S. Walnut Street from Santa Fe Avenue to Coconino Avenue; S. Sycamore Street from Santa Fe Avenue to Grand Canyon Avenue; S. Spring Street from Montvale Avenue to Grand Canyon Avenue; W. Summit Avenue from Santa Fe Avenue to end; and W. Santa Fe Avenue from Walnut Street to Thorpe Road. Waterline only will be installed on W. Montvale Avenue from Santa Fe Avenue, to end. The existing waterlines in this area range from 58 to more than 90 years old. This project is part of the City's ongoing aging water infrastructure replacement program.

### **Project Update:**

- All underground work is complete.
- Walnut St and Sycamore St have been paved.
- Work has begun with pavement removal and replacement on Spring St.
- Spring St scheduled for paving the week of May 10th.



*Summit Water Project-Spring St. pavement removal*



## **Rio de Flag Flood Control Project** (Design Phase)

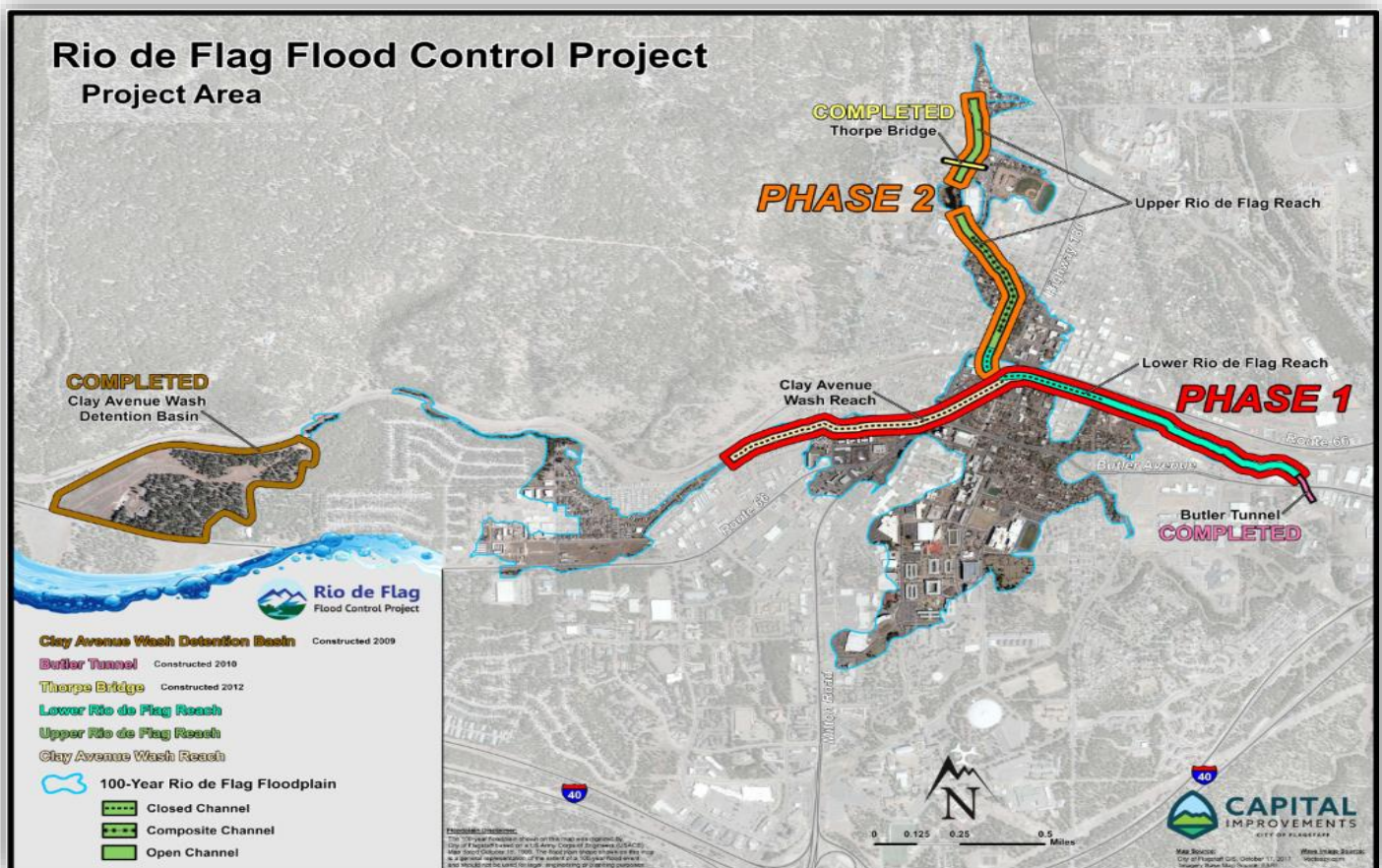
FUND: STORMWATER & AGING INFRASTRUCTURE

**Purpose** – The purpose of the Rio de Flag Flood Control Project is to remove the hazards associated with the hundred-year storm event, which include property damage, life safety concerns, and community economic impacts. From research conducted by the Army Corps, it was determined that a significant flood would damage approximately 1,500 structures valued at over \$916M and cause \$93M in economic damages, for a total impact of over \$1 Billion dollars.

### **Project improvements will provide:**

- Reduction of flooding damage and safety hazards.
- Opportunity for Downtown and Southside redevelopment.
- Elimination of flood insurance requirements and restrictive floodplain management regulations.

**Description** - Design consists of channel improvements along both the Rio de Flag and Clay Avenue Wash channels through central Flagstaff and includes a combination of underground concrete box culverts, open channel, and composite channel. The composite channel section has both an underground culvert to carry large volumes of water and a smaller open channel on top, which will provide an aesthetic element of flowing surface water during rainfall events. Total project length is approximately 15,000 feet.



*Rio de Flag Project Location Map*

## Current Status -

- **Design** - Work continues on the construction documents and design completion between the City's and Army Corps' consultants, including the channel crossing on ADOT right-of-way at the Milton Road and Butler Avenue intersection, utility relocations, and design of the project on BNSF Railway property.
  - BG Owen and COL Balten made a visit to Flagstaff on April 7<sup>th</sup> and 8<sup>th</sup> and were attended by Senator Kelly's staffer Coral Evans, Mayor Deasy and Council Members Aslan and Shimoni. The following are key action items:
    - Re-evaluate risk of the tunneling and shoofly requirement and continue to work on approval from BNSF up their chain.
    - Refine the most recent Lone Tree Overpass track iteration to address BNSF's comments.
    - Develop preliminary grade concept (Phase I) for the North shoofly option.
    - Continue to work on discerning RDF mitigation measures from LTO.
    - Investigate other partnerships and support – ADOT, NAU, Congressional delegation, Metro Plan, Mountain Line and Amtrak.
    - Investigate potential partnership with BNSF on federal grants.
    - Set up regular meeting schedule with DVD and Corps team
    - Plan for future visit to BNSF Headquarters in Fort Worth, TX.
- **Real Estate** – On April 12<sup>th</sup> we received the Take Letter from the USACE.
  - Seeking clarification from USACE, progress is limited until we have clear direction on how to proceed.
  - Legal descriptions, encumbrance maps, and utility easements are currently being developed for property acquisition based on the gross take.
  - Developing segment maps.
  - Updating the project schedule.
- **Public Involvement** - Several public involvement items have been created and posted to the website, including:
  - Photo simulations and video for the Flood Wall, Composite Channel, Open Channel (Clay Wash) and Open Channel (Lower Reach).
  - A virtual meeting room that has project exhibits and information.
  - A Southside Community Interview video.
  - The link and web address for the Rio de Flag Public Information page is <https://www.flagstaff.az.gov/4189/Rio-De-Flag-Flood-Control>.
- **BNSF Railway** - The City is currently negotiating BNSF project mitigation measures including:
  - Held a kick-off meeting on April 27 that included BNSF, ADOT, and Metro Plan for the concept development for reconstruction of the Milton Bridge (north alignment).
  - Work continues to determine required mitigation that is focused on the need for 6½ mile of siding track (impacts all 5 at-grade crossings).
  - Met with Mountain Line and Amtrak to discuss collocation at the proposed Downtown Connection Center.
  - Met with ADOT and BNSF to discuss a potential RAISE Grant opportunity for project planning.
  - Working with BNSF, MetroPlan and Mountain Line to submit RAISE Grant by the July 12th, 2021 deadline.



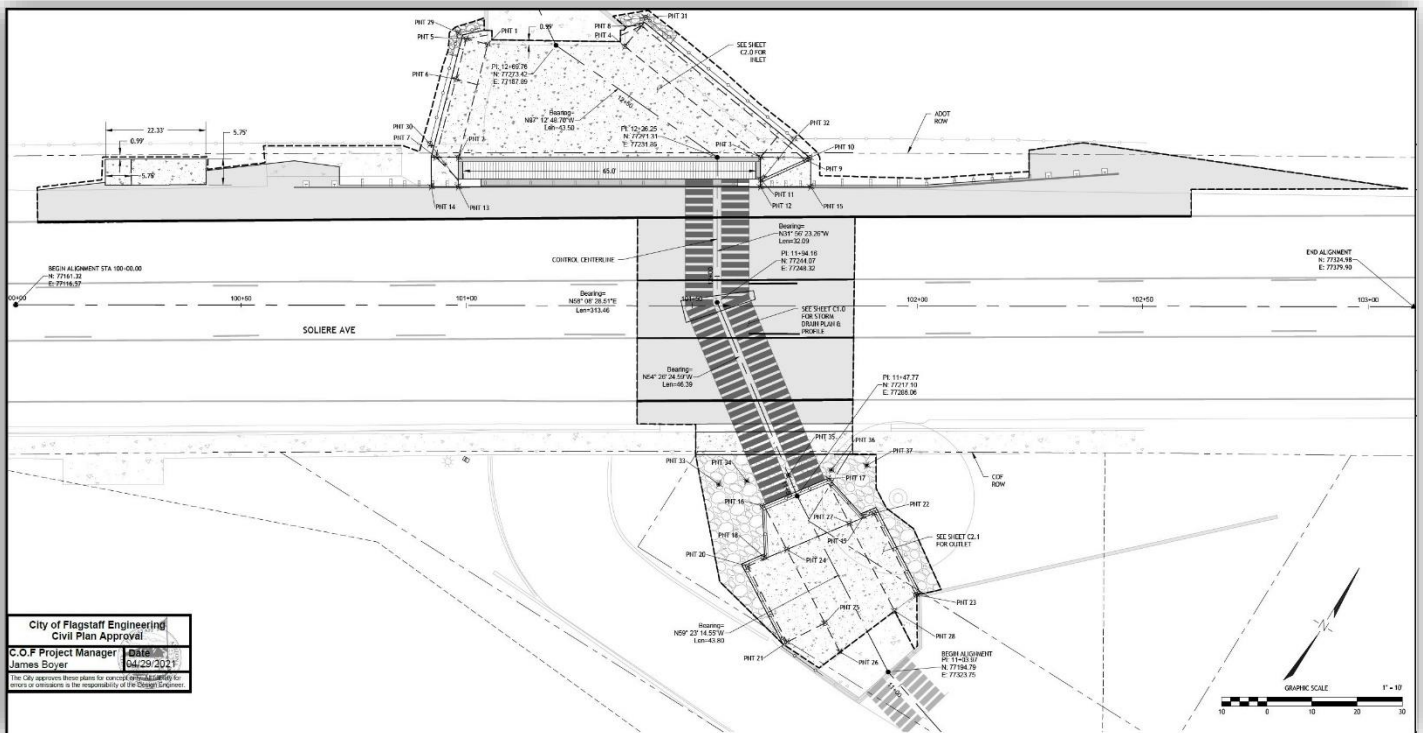
## Steves Boulevard Wash at Soliere (DESIGN PHASE)

FUND: STORMWATER

**Description** – This is a stormwater improvements project to eliminate the low water crossing from Steves Boulevard Wash at Soliere Avenue.

### **Project Update:**

- JOC Bids are due on May 14.
- ADOT has endorsed the design for the portion of the improvements that are within their right-of-way.
- NAIPTA has been coordinated with to relocate the existing bus stop in conflict with the new guardrail on the north side of Soliere Ave.
- The Summit Apartments that border the project limits and are just downstream have been notified of the project and the intent of the improvements.
- Construction is targeted completion in 2021.



*Final Approved Construction Plans*

## **Route 66 ADOT Bridge Replacement Project** (CONSTRUCTION PHASE)

FUND: ARIZONA DEPARTMENT OF TRANSPORTATION

**Description** – Project consists of removing the existing concrete bridge that crosses the Rio de Flag channel and replacing with a precast box girder bridge with precast abutments. Included with the project are roadway approach slabs on either side of the new bridge, channel improvements with bank protection and revegetation mitigation measures. The purpose is to provide a new Route 66 bridge crossing at the Rio de Flag to serve Route 66/Milton.

### **Project Update:**

- The ADOT contractor, FNF Construction, is contracted to complete the work by October 2021.
- Contractor continues to work on the drilled shaft elements for abutment no. 1 and no. 2. All drilled shafts for the bridge are expected to be complete the week of May 17<sup>th</sup>.
- Prefabricated concrete approach slabs continue within the project area.
- ADOT continues to update City staff on construction matters and will release information to the public through media releases.
- The contractor will implement a temporary lane closure of EB or WB Route 66 during work operations as necessary. ADOT will be monitoring the traffic and will make alterations to increase traffic flow if needed.
- Rt. 66 is scheduled to be closed June 10 through June 17<sup>th</sup>, reopening on June 18<sup>th</sup>. During this closure, northbound traffic will be detoured to Butler, San Francisco then to Columbus. Southbound traffic will be detoured to Switzer Canyon. Extensive signange and public outreach will be provided.



*Equipment on site for the drilled shafts. Work performed on south side of Rt. 66*